

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/50665

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H01S3/139 H01S5/14 H01S5/0687

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| Y | EP 0 951 112 A (ANRITSU CORP) 20 October 1999 (1999-10-20) cited in the application column 18, line 25 - column 20, line 22 ----- | 1-15 |
| Y | US 5 054 028 A (ESHERICK PETER ET AL) 1 October 1991 (1991-10-01) column 3, line 12 - line 56; figure 1 ----- | 1-15 |
| A | US 6 608 847 B2 (ZHANG GUANGZHI Z. ET AL) 19 August 2003 (2003-08-19) column 11, line 52 - column 12, line 10; figure 7 ----- -/- | 1-15 |

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the International search

11 August 2004

Date of mailing of the international search report

19/08/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax (+31-70) 340-3016

Authorized officer

Flierl, P

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| A | MATTORI S ET AL: "A MODE HOPPING SUPPRESSED EXTERNAL-CAVITY SEMICONDUCTOR LASER USING FEEDBACK CONTROL" IEICE TRANSACTIONS ON ELECTRONICS, INSTITUTE OF ELECTRONICS INFORMATION AND COMM. ENG. TOKYO, JP, vol. E85-C, no. 1, January 2002 (2002-01), pages 98-103, XP001116769 ISSN: 0916-8524 page 100, right-hand column, paragraph 4; figure 4 | 1-4, 6-15 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/50665

| Patent document cited in search report | Publication date | | Patent family member(s) | | Publication date |
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| EP 0951112 | A | 20-10-1999 | JP 3197869 B2 JP 11289118 A DE 69902963 D1 DE 69902963 T2 EP 0951112 A2 US 6081539 A | | 13-08-2001 19-10-1999 24-10-2002 28-05-2003 20-10-1999 27-06-2000 |
| US 5054028 | A | 01-10-1991 | NONE | | |
| US 6608847 | B2 | 03-04-2003 | US 2003063633 A1 | | 03-04-2003 |